

What is claimed is:

1. A construction overlay composition consisting essentially of soil, from about 12 to about 14 parts; water, from about 3 to about 4 parts; flyash, from about 2 to about 3 parts; and cement, from about 1 to about 2 parts.

2. The composition recited in Claim 1, consisting essentially of silver fines, 29.8 vol %; brown fines, 29.8 vol %; water, 23.2 vol %; flyash, 12.4 vol %; and cement, 2.8 vol %.

3. A wall structure comprising:
a frame structure comprising a plurality of spaced-apart frame elements;
a support structure affixed to the spaced-apart elements to form an interior space;
a core material within the support structure interior space; and
an overlay composition applied to an exterior surface of the support structure,
the overlay composition consisting essentially of:

soil, from about 12 to about 14 parts;
water, from about 3 to about 4 parts;
flyash, from about 2 to about 4 parts; and
cement, from about 1 to about 2 parts.

4. The wall structure recited in Claim 3, wherein the frame elements comprise a plurality of posts driven into soil to form two substantially parallel rows thereof.

5. The wall structure recited in Claim 4, wherein the support structure comprises a wire mesh affixed in covering relation to the two rows of posts to form two substantially parallel mesh walls, a void therebetween comprising the support structure interior space.

6. The wall structure recited in Claim 5, wherein the core material comprises at least one of a dried plant material, a recyclable material, and a filler-insulating material.

7. The wall structure recited in Claim 6, wherein the dried plant material comprises sagebrush.

8. The wall structure recited in Claim 3, wherein the core material comprises at least one of a dried plant material, a recyclable material, and a filler-insulating material.

9. The wall structure recited in Claim 3, further comprising stone positioned to fill an elongated ditch in soil, for providing additional support to the frame structure.

10. The wall structure recited in Claim 9, wherein the stone has level above a level of surrounding ground toward a center of the ditch, the stone sloping downward toward opposed edges of the ditch.

11. The wall structure recited in Claim 3, wherein the overlay composition is sprayable onto the support structure.

12. The wall structure recited in Claim 11, wherein the core material has voids therein, and further comprising overlay composition within the support structure interior space atop the core material to fill at least some of the core material voids.

13. The wall structure recited in Claim 3, wherein the frame elements comprise metal bars vertically affixed to a footing structure of a building in two substantially parallel rows.

14. The wall structure recited in Claim 13, wherein the frame elements further comprise horizontal ties, each tie attached to two metal bars, one metal bar in each row, the ties thereby in bridging relation to the rows within the support structure interior space.

15. The wall structure recited in Claim 14, wherein the support structure comprises a mesh material affixed in covering relation to the two rows of bars to form two substantially parallel mesh walls, a void therebetween comprising the support structure interior space.

16. The wall structure recited in Claim 15, wherein the core material comprises the overlay composition.

17. The wall structure recited in Claim 16, wherein the overlay composition is sprayable onto the mesh material.

18. The wall structure recited in Claim 13, further comprising a concrete footing positioned on a compacted earth base below ground level, bottom ends of the metal bars set into the concrete footing.

19. The wall structure recited in Claim 3, wherein the frame elements comprise:
two pairs of substantially parallel, spaced-apart beams;
a plurality of post elements attached in bridging and generally perpendicular relation to each pair of beams for forming two frame sheets; and
means for holding the two frame sheets in substantially parallel relation to each other to form a building element skeleton.

20. The wall structure recited in Claim 19, further comprising a wire mesh affixed in covering relation to each frame sheet, a void between the two frame sheets comprising the interior space.

21. The wall structure recited in Claim 20, further comprising an insulating panel affixed to the wire mesh of at least one of the frame sheets.

22. The wall structure recited in Claim 20, further comprising an insulating foam sprayed onto the wire mesh of at least one of the frame sheets.

23. The wall structure recited in Claim 20, wherein the core material comprises the overlay composition.

24. The wall structure recited in Claim 23, wherein the overlay composition is sprayable onto an outward-facing side of each frame sheet.

25. The wall structure recited in Claim 3, wherein the frame elements comprise:
a plurality of first bars positioned in substantially vertical fashion in two substantially parallel rows; and
a plurality of second bars attached in substantially horizontal fashion along the rows of first positioned bars.

26. The wall structure recited in Claim 25, further comprising a plurality of laths arrayed in two substantially parallel rows and positioned in substantially vertical fashion, one row along each of the two rows of first bars, the first bars in supporting relation to the laths, to form a void between the two rows of laths.

27. The wall structure recited in Claim 26, further comprising an insulating panel attached to at least some of the laths of at least one of the rows of laths.

28. The wall structure recited in Claim 26, further comprising an insulating foam sprayed onto at least some of the laths of at least one of the rows of laths.

29. The wall structure recited in Claim 26, wherein the core material comprises the overlay composition.

30. The wall structure recited in Claim 29, wherein the overlay composition is sprayable onto an outward-facing side of each row of vertically positioned bars.

31. The wall structure recited in Claim 3, wherein:

the frame elements comprise a plurality of posts driven into soil to form two substantially parallel rows thereof;

the support structure comprises a flexible sheathing material affixed in surrounding relation to at least a bottom portion of the two rows of posts to form an enclosed space; and

the support structure further comprises a wire mesh affixed in surrounding relation to the sheathing material.

32. The wall structure recited in Claim 31, further comprising a flexible bar material wrapped around the rows of posts and under the sheathing material to provide reinforcement.

33. The wall structure recited in Claim 32, wherein the core material comprises at least one of a dried plant material, a recyclable material, and a filler-insulating material.

34. The wall structure recited in Claim 33, further comprising a top comprising further sheathing material and further wire mesh affixed in spanning relation to the two rows of posts at a top of the support structure.

35. The wall structure recited in Claim 34, wherein the overlay composition is sprayed onto outward-facing sides of the support structure and to an upper surface of the wall structure top.

36. The wall structure recited in Claim 35, further comprising a plastering composition sprayed onto the outward-facing sides of the support structure and to the upper surface of the wall structure top prior to the overlay composition, the plastering composition consisting essentially of: plaster sand, 60-62 vol %; water, 17-19 vol %; flyash, 13-14 vol %; and cement, 2.5-4.0 vol %.